

What is claimed is:

1. A portable power source that is powered by a user to direct electrical  
2 energy to an object, the power source comprising:  
a housing;  
4 a stator component coupled to the housing;  
a rotor component that is moved relative to the stator component by  
6 the user to generate electrical energy; and  
a control system that receives the electrical energy and  
8 electronically controls the level of an output electrical energy to the object.
2. The power source of claim 1 wherein the control system  
2 electronically controls the level of an output current to the object.
3. The power source of claim 1 wherein the control system  
2 electronically controls the level of an output voltage to the object.
4. The power source of claim 1 wherein the control system  
2 electronically controls the level of an output power to the object.
5. The power source of claim 1 wherein the rotor component rotates  
2 relative to the stator component and the control system electronically controls the  
amount of torque required to rotate the rotor component.
6. The power source of claim 1 wherein the control system  
2 electronically controls the amount of force required to move the rotor component  
relative to the stator component.
7. The power source of claim 1 wherein the control system  
2 electronically senses an input voltage required by the object.

2        8.     The power source of claim 1 wherein the control system electronically senses an input power required by the object.

2        9.     The power source of claim 1 further comprising an internal energy storage that stores electrical energy.

2        10.    The power source of claim 9 wherein the control system selectively directs electrical energy to the internal energy storage.

2        11.    The power source of claim 10 wherein the control system selectively bypasses the internal energy storage and directly directs electrical energy to the object.

2        12.    The power source of claim 1 wherein the electrical energy generated by the initial movement of the rotor component relative to the stator component is diverted to provide power to the control system.

2        13.    The power source of claim 1 further comprising a display that displays a plurality of characters to provide a status of charging of the object.

2        14.    The power source of claim 1 further comprising a display that displays graphics to help the user move the rotor component.

2        15.    The power source of claim 1 further comprising a crank assembly that is coupled to the rotor component so that movement of the crank assembly by the user results in movement of the rotor component.

2        16.    The power source of claim 15 wherein the crank assembly includes a handle that is adapted to be moved by a hand of the user.

17. The power source of claim 15 wherein the crank assembly includes  
2 a first pedal and a second pedal.

18. A power source combination including a plurality of power sources of  
2 claim 1 electrically connected to the object.

19. A portable power source that is powered by a user to direct electrical  
2 energy to an object, the power source comprising:  
a housing;  
4 a stator component coupled to the housing;  
a rotor component that is moved relative to the stator component by  
6 the user to generate electrical energy;  
a control system that receives the electrical energy, wherein the  
8 electrical energy generated by the initial movement of the rotor component  
relative to the stator component is diverted to provide power to the control  
10 system.

20. The power source of claim 19 wherein the control system  
2 electronically controls the level of an output current to the object.

21. The power source of claim 19 wherein the control system  
2 electronically controls the level of an output voltage to the object.

22. The power source of claim 19 wherein the control system  
2 electronically controls the level of an output power to the object.

23. The power source of claim 19 wherein the rotor component rotates  
2 relative to the stator component and the control system electronically controls the  
amount of torque required to rotate the rotor component.

24. The power source of claim 19 wherein the control system  
2 electronically controls the amount of force required to move the rotor component  
relative to the stator component.

25. The power source of claim 19 wherein the control system  
2 electronically senses an input voltage required by the object.

26. The power source of claim 19 wherein the control system  
2 electronically senses an input power required by the object.

27. The power source of claim 19 further comprising a display that  
2 displays a plurality of characters to provide a status of charging of the object.

28. The power source of claim 19 further comprising a display that  
2 displays graphics to help the user move the rotor component.

29. The power source of claim 19 further comprising a crank assembly  
2 that is coupled to the rotor component so that movement of the crank assembly by  
the user results in movement of the rotor component.

30. A portable power source that is powered by a user to direct electrical  
2 energy to an object, the power source comprising:

4 a housing;  
a stator component coupled to the housing;  
a rotor component that is moved relative to the stator component by  
6 the user to generate electrical energy; and  
a control system that receives the electrical energy and  
8 electronically senses a level of an input electrical energy required by the  
object.

2 31. The power source of claim 30 wherein the control system electronically senses a level of an input current required by the object.

2 32. The power source of claim 30 wherein the control system electronically senses a level of an input voltage required by the object.

2 33. The power source of claim 30 wherein the control system electronically senses a level of an input power required by the object.

2 34. The power source of claim 30 wherein the rotor component rotates relative to the stator component and the control system electronically controls the amount of torque required to rotate the rotor component.

2 35. The power source of claim 30 wherein the control system electronically controls the amount of force required to move the rotor component relative to the stator component.

2 36. The power source of claim 30 further comprising a crank assembly that is coupled to the rotor component so that movement of the crank assembly by the user results in movement of the rotor component.

2 37. A portable power source that is powered by a user to direct electrical energy to an object, the power source comprising:

4 a housing;  
a stator component coupled to the housing;  
6 a rotor component that is moved relative to the stator component by the user to generate electrical energy;  
a control system that receives the electrical energy; and  
8 a display that displays a plurality of characters that provide a status of charging of the object.

38. The power source of claim 37 further comprising a crank assembly  
2 that is coupled to the rotor component so that movement of the crank assembly  
by the user results in movement of the rotor component.

39. A portable power source that is powered by a user to direct  
2 electrical energy to an object, the power source comprising:  
a housing;  
4 a stator component coupled to the housing;  
a rotor component that is moved relative to the stator component by  
6 the user to generate electrical energy;  
a control system that receives the electrical energy; and  
8 a display that displays graphics to help the user move the rotor  
component.

40. The power source of claim 39 further comprising a crank assembly  
2 that is coupled to the rotor component so that movement of the crank assembly  
by the user results in movement of the rotor component.